

# PRESSURE TRANSDUCER

## Abstract

A pressure transducer suitable for use as a component of a passive occupant detection system installed in a passenger vehicle. The transducer comprises first and second contact members separated by a spacing member. The first contact member has on a surface thereof a primary contact comprising first and second terminations and portions spaced apart in a first direction. The second contact member has on a surface thereof a plurality of secondary contacts crossing and facing the spaced-apart portions of the primary contact through an opening in the spacing member. Application of an increasing force causes the contact members to move toward each other, causing an increasing number of the spaced-apart portions to be shorted out by the secondary contacts and causing an increasing number of secondary contacts to contact the primary contact, thereby altering the electrical path between the terminations of the primary contact.